CONTRACT PLANS STANDARD RETAINING WALL DRAWINGS (WD-01 TO WD-09)

I-405 MP 0.00 TO MP 14.60

I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

VOLUME 8
WSDOT FINAL DESIGN SUBMITTAL

KING COUNTY



VOLUME 8

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO. SHEET TITLE		SHEET TITLE	SHEET DESCRIPTION
В					2	RETIANING WALL DETAIL	WALL 13.25L (2 OF 2)
В				W110 1 RET		RETAINING WALL PLAN AND PROFILE	WALL 13.26L (1 OF 2)
В				W110 2 RET		RETIANING WALL DETAIL	WALL 13.26L (2 OF 2)
В				W111	1	RETAINING WALL PLAN AND PROFILE	12.35L (1 OF 3)
В						RETAINING WALL PLAN AND PROFILE	12.35L (2 OF 3)
В				W111	3	RETIANING WALL DETAIL	12.35L (3 OF 3)
В				W112	1	RETAINING WALL PLAN AND PROFILE	12.35R (1 OF 3)
В				W112	2	RETAINING WALL PLAN AND PROFILE	12.35R (2 OF 3)
В				W112	3	RETIANING WALL DETAIL	12.35R (3 OF 3)
В				W113	1	RETAINING WALL PLAN AND PROFILE	13.00R (1 OF 2)
В				W113	2	RETIANING WALL DETAIL	13.00R (1 OF 2)
В	Ħ			W114		RETAINING WALL PLAN AND PROFILE	12.40ABUT (1 OF 2)
В	Ħ			W114		RETIANING WALL DETAIL	12.40ABUT (2 OF 2)
В	Х			WD		RETAINING WALL TYPICAL DETAILS	PEDESTRIAN FENCE DETAILS
В	Х			WD		RETAINING WALL TYPICAL DETAILS	FALL PROTECTION FENCE DETAILS
В	Х			WD		RETAINING WALL TYPICAL DETAILS	FENCE BASE AND CONNECTIONS
В	X		-	WD		RETAINING WALL TYPICAL DETAILS	PRECAST/CIP CONCRETE
В	X			WD		RETAINING WALL TYPICAL DETAILS	WALL FOOTING AND JOINT DETAILS
	_						
В	X			WD		RETAINING WALL TYPICAL DETAILS	WALL DRAINS
В	Х			WD		RETAINING WALL TYPICAL DETAILS	WALL DRAIN AND WEEP HOLE DETAILS
В	Х			WD		RETAINING WALL TYPICAL DETAILS	FALL PROTECTION CABLE FENCE ALT.
В	Х			WD	9	RETAINING WALL TYPICAL DETAILS	WALL CAP CONNECTION DETAILS
В				WD		RETAINING WALL TYPICAL DETAILS	
В				NWD	1	NOISE WALL	SECTIONS AND DETAILS
В				NWD	2	NOISE WALL	SECTIONS AND DETAILS
Α				NWD	3		
Α				NWD	1-1	NOISE WALL EAST 10(1) AND 10(2)	PRECAST SECTIONS AND DETAILS
Α				NWD	1-2	NOISE WALL EAST 10(1) AND 10(2)	PRECAST CAP DETAILS
Α				NWD	1-3	NOISE WALL EAST 10(1) AND 10(2)	PRECAST SECTIONS AND DETAILS
Α				NWD	1-4	NOISE WALL EAST 10(1) AND 10(2)	PRECAST SECTIONS AND DETAILS
Α	Ħ			NWD	1-5	NOISE WALL EAST 10(1) AND 10(2)	PRECAST SECTIONS AND DETAILS
Α				NWD	1-6	NOISE WALL EAST 10(1) AND 10(2)	DRILLED SHAFT SCHEDULE
Α	Ħ			NWD	1-7	NOISE WALL EAST 10 - CPF	NOISE WALL DETAILS
Α	H			NWD		NOISE WALL DETAILS-23'-0" MAX. EXP. WALL	NOISE WALL EAST 11
Α	H			NWD		NOISE WALL DETAILS-19'-6" MAX. EXP. WALL	NOISE WALL EAST 11
Α	H			NWD		NOISE WALL DETAILS-12-0" MAX. EXP. WALL	NOISE WALL EAST 11
A	H					NOISE WALL DETAILS MAX HEIGHT 22'-0"	NOISE WALL EAST 11
A	H		NWD 4-4 NWD 4-5			NOISE WALL DETAILS MAX HEIGHT 22'-0"	NOISE WALL EAST 11
	H					NOISE WALL DETAILS MAX HEIGHT 22'-0"	
A	\vdash		-	NWD		NOISE WALL DETAILS MAX HEIGHT 32'-4"	NOISE WALL EAST 11
	${\mathsf H}$						NOISE WALL EAST 11
Α	\vdash			NWD		NOISE WALL DETAILS	NOISE WALL EAST 11
A	\vdash			NWD		NOISE WALL DETAILS	NOISE WALL EAST 11
A	\vdash			NWD		NOISE WALL DETAILS	NOISE WALL EAST 11
A	\vdash			NWD		NOISE WALL SHAFT SCHEDULE	NOISE WALL EAST 11
Α	Н			NWD			
Α	Ш			NWD			
В	Ц			NWD 7-1		NOISE WALL DETAILS	NOISE WALL WEST 5(1)
В	Ш			NWD		NOISE WALL DETAILS	NOISE WALL WEST 5(1)
В	Ш			NWD 7-3		NOISE WALL DETAILS	NOISE WALL WEST 5(1)
В	Ш			NW1 1		NOISE WALL PLAN AND PROFILE	NOISEWALL EAST 10 (1) (1 OF 2)
В	LĪ					NOISE WALL PLAN AND PROFILE	NOISEWALL EAST 10 (1) (2 OF 2)
В			NW2 1		1	NOISE WALL PLAN AND PROFILE	NOISEWALL EAST 10 (2) (1 OF 2)
В	П			NW2	2	NOISE WALL PLAN AND PROFILE	NOISEWALL EAST 10 (2) (1 OF 2)
В	Ħ			NW3	1	NOISE WALL PLAN AND PROFILE	CONCRETE PROTECTIVE FENCE (1 OF 2)
D	Ħ			NW3		NOISE WALL PLAN AND PROFILE	CONCRETE PROTECTIVE FENCE (2 OF 2)
В			1				
В	T			NW4	1	NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (1 OF 7)

REV NO.	INCLUDED	REV. DATE	SUB. NO.	PLAN REF NO.		3. NO. I		SHEET TITLE	SHEET DESCRIPTION
В	П					NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (3 OF 7)		
В				NW4	4	NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (4 OF 7)		
В				NW4	5	NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (5 OF 7)		
В				NW4	6	NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (6 OF 7)		
В	Ш			NW4		NOISE WALL PLAN AND PROFILE	NOISE WALL EAST 11 (7 OF 7)		
В	Ш			NW4		GRADE BEAM DETAILS	NOISE WALL EAST 11		
В	Щ			NW4	_	GRADE BEAM DETAILS	NOISE WALL EAST 11		
В	Ш			NW6		NOISE WALL PLAN AND PROFILE	NOISE WALL 6 (1 OF 5)		
В	Ц			NW6		NOISE WALL PLAN AND PROFILE	NOISE WALL 6 (2 OF 5)		
В	Н			NW6		NOISE WALL PLAN AND PROFILE	NOISE WALL 6 (3 OF 5)		
В	H			NW6		NOISE WALL PLAN AND PROFILE	NOISE WALL 6 (4 OF 5)		
В	Н			NW6		NOISE WALL PLAN AND PROFILE	NOISE WALL 6 (5 OF 5)		
В	H			NWD6		NOISE WALL DETAILS	NOISE WALL WEST 6		
В	Н			NWD6		NOISE WALL DETAILS NOISE WALL DETAILS	NOISE WALL WEST 6 NOISE WALL WEST 6		
В	Н			NWD6			NOISE WALL WEST 5 ON WALL 7.75L		
Α	Н			_		NOISE WALL PLAN AND PROFILE			
Α	Н			NW7		NOISE WALL PLAN AND PROFILE	NOISE WALL WEST 5 ON WALL 7.75L NOISE WALL WEST 5 ON WALL 7.75L		
Α	Н			IN VV /	J	NOISE WALL PLAN AND PROFILE	NOISE WALL WEST 3 OIN WALL /./SL		
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NO.	ISSUE DATE	ISSUE RECORD - DESCRIPTION	DESIGNED BY	ENTERED BY	CHECKED BY	DESIGN MANAGER:	NO.	STATE
							10	WASH
							10	WASII
							CONTRACT	T NO.

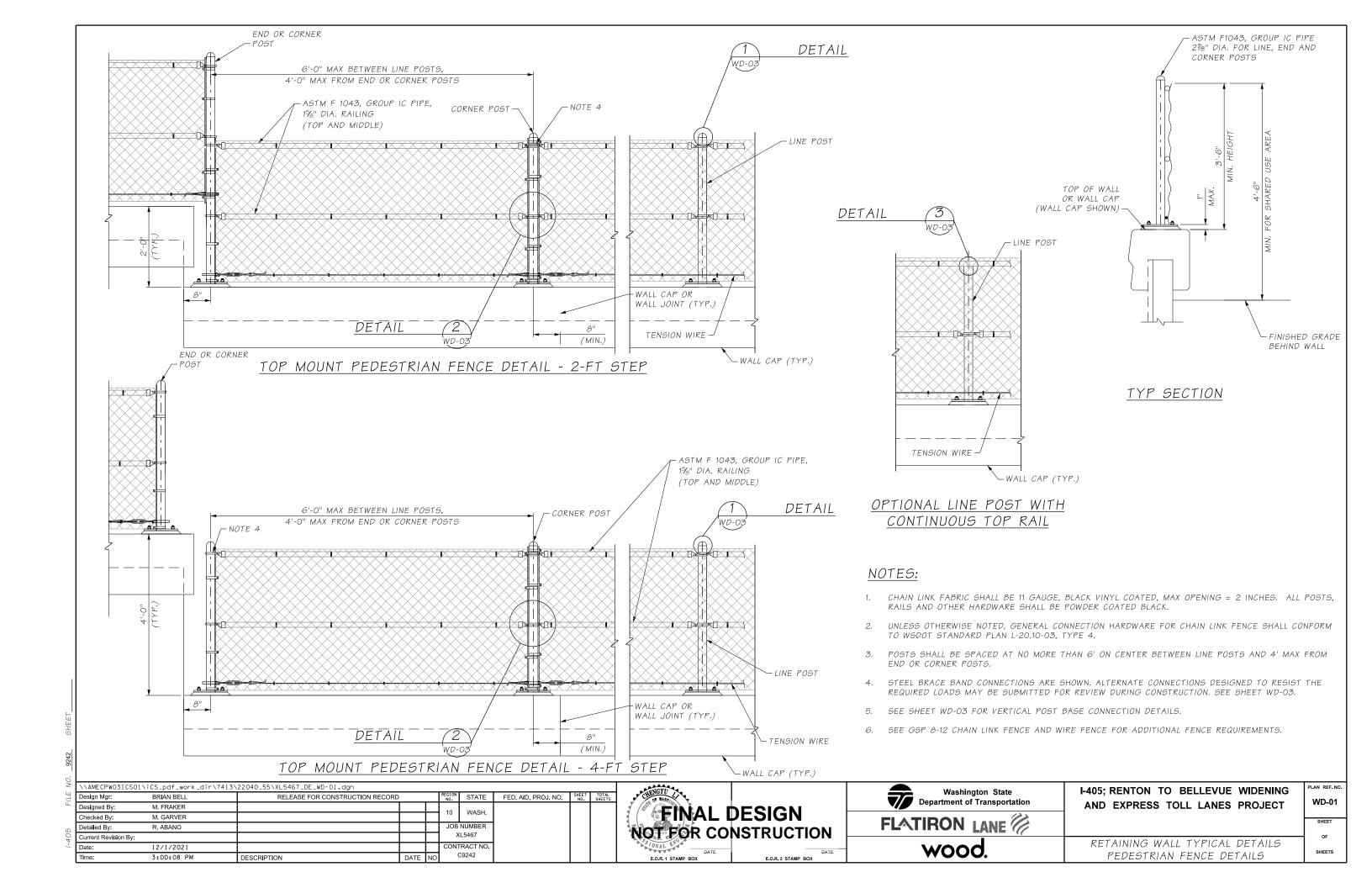


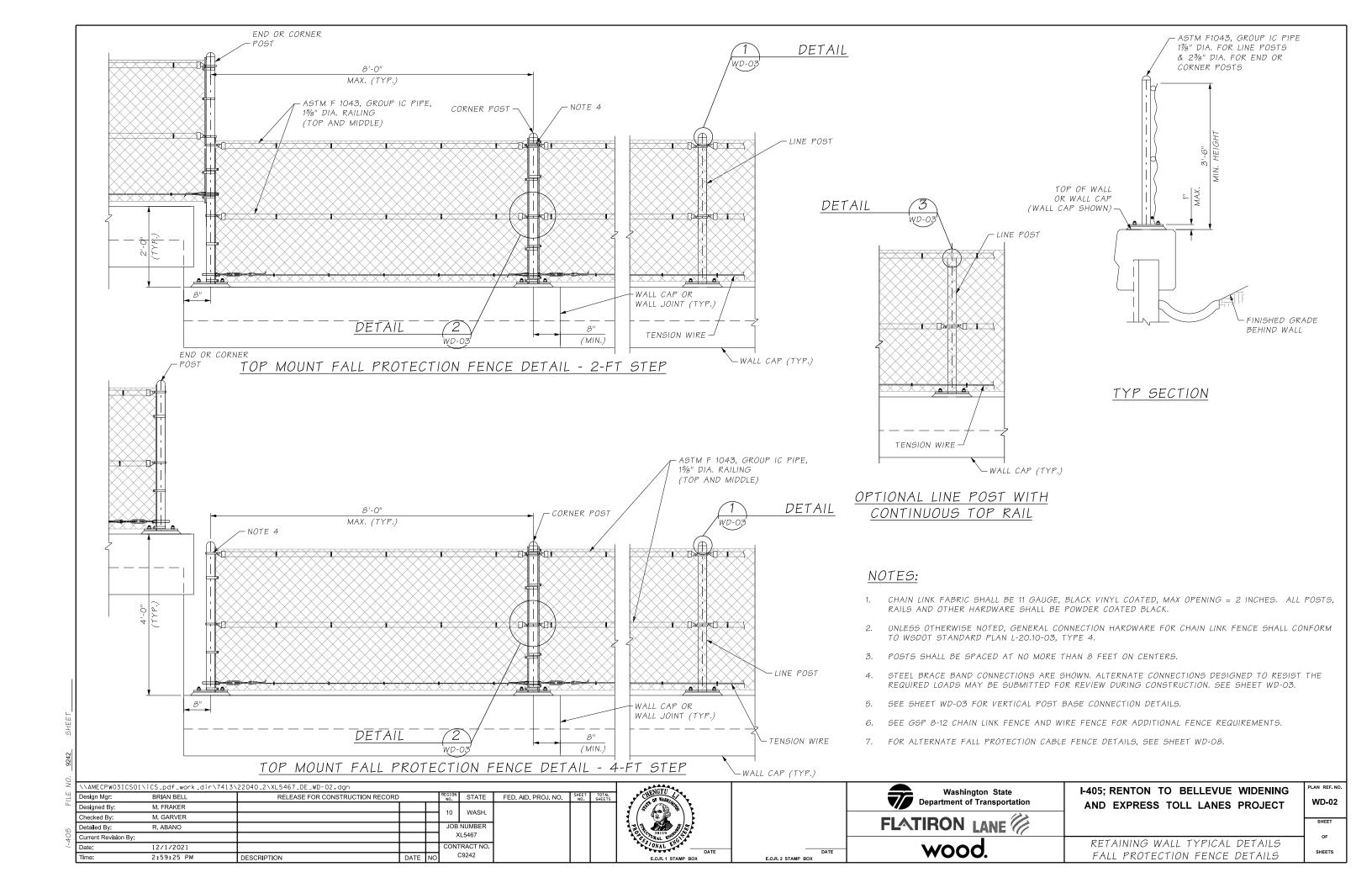


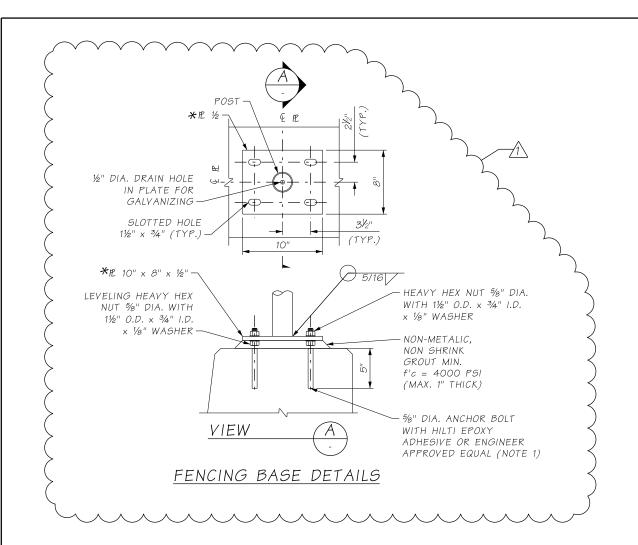
I-405
RENTON TO BELLEVUE
EXPRESS TOLL LANES

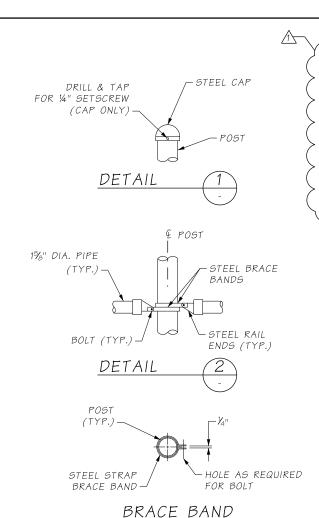
IN08-2

INDEX OF SHEETS - VOL 8









NOTES:

- PER STANDARD SPECIFICATIONS SECTION 9-06.5(4), ANCHOR BOLTS SHALL MEET CRITERIA OF ASTM F1554. ANCHOR GRADE 55 OR 105 SHALL BE USED WITH HILTI HIT HY 200 EPOXY, AND GRADE 36, 55 OR 105 SHALL BE USED FOR HILTI HIT RE 500 EPOXY. NUTS SHALL MEET ASTM A563, GRADE D OR DH. STEEL PLATE SHALL MEET REQUIREMENTS OF ASTM A36 AND SHALL BE GALVANIZED. CORING FOR ANCHOR BOLT SHALL BE MADE BY HAMMER DRILL WITH CARBIDE BIT OR DIAMOND BIT AND ROUGHENED.
- STEEL BRACE BAND CONNECTIONS OF TOP AND MID RAILING SHALL BE MIN. 12 GAGE x 3/4" PER ASTM F626. MIN. STEEL GRADE FOR BRACE BAND SHALL BE AASHTO M270, GRADE 36 OR ASTM A36. BOLTS SHALL BE MIN. ASTM A307 GRADE A PER STANDARD SPECIFICATIONS SECTION 9-06.22. ALTERNATE CONNECTIONS TO WHAT IS SHOWN IN THESE DRAWINGS DESIGNED TO RESIST THE REQUIRED LOADS MAY BE SUBMITTED FOR REVIEW DURING CONSTRUCTION. IF SO, TYPE 3E WORKING DRAWINGS SHALL BE SUBMITTED PER CONFORMED RFP, 1-405, RENTON TO BELLEVUE WIDENING AND ETL PROJECT, SECTION 2.13.7.2.
- FILLET WELD BETWEEN POST AND BASE PLATE SHALL BE MADE WITH WELD FILLER METAL WITH MINIMUM TENSILE STRENGTH OF 70 KSI.

\\AMECPW03ICS01\iCS_pdf_work_dir\7615\22040_3\XL5467_DE_WD-03.dgn FED. AID. PROJ. NO. SHEET TOTAL NO. SHEETS Design Mgr: BRIAN BELL RELEASE FOR CONSTRUCTION RECORD STATE Designed By: J. FORBES RELEASED FOR CONSTRUCTION WASH 10 Checked By: G. BAJORIA Detailed By: J. FORBES Current Revision By: M. FRAKER ONTRACT NO. Date: 12/22/2021 C9242 10:55:10 PM DESCRIPTION





DATE

15/8" DIA. PIPE (TYP.)

DETAIL

STEEL LOOP CAP

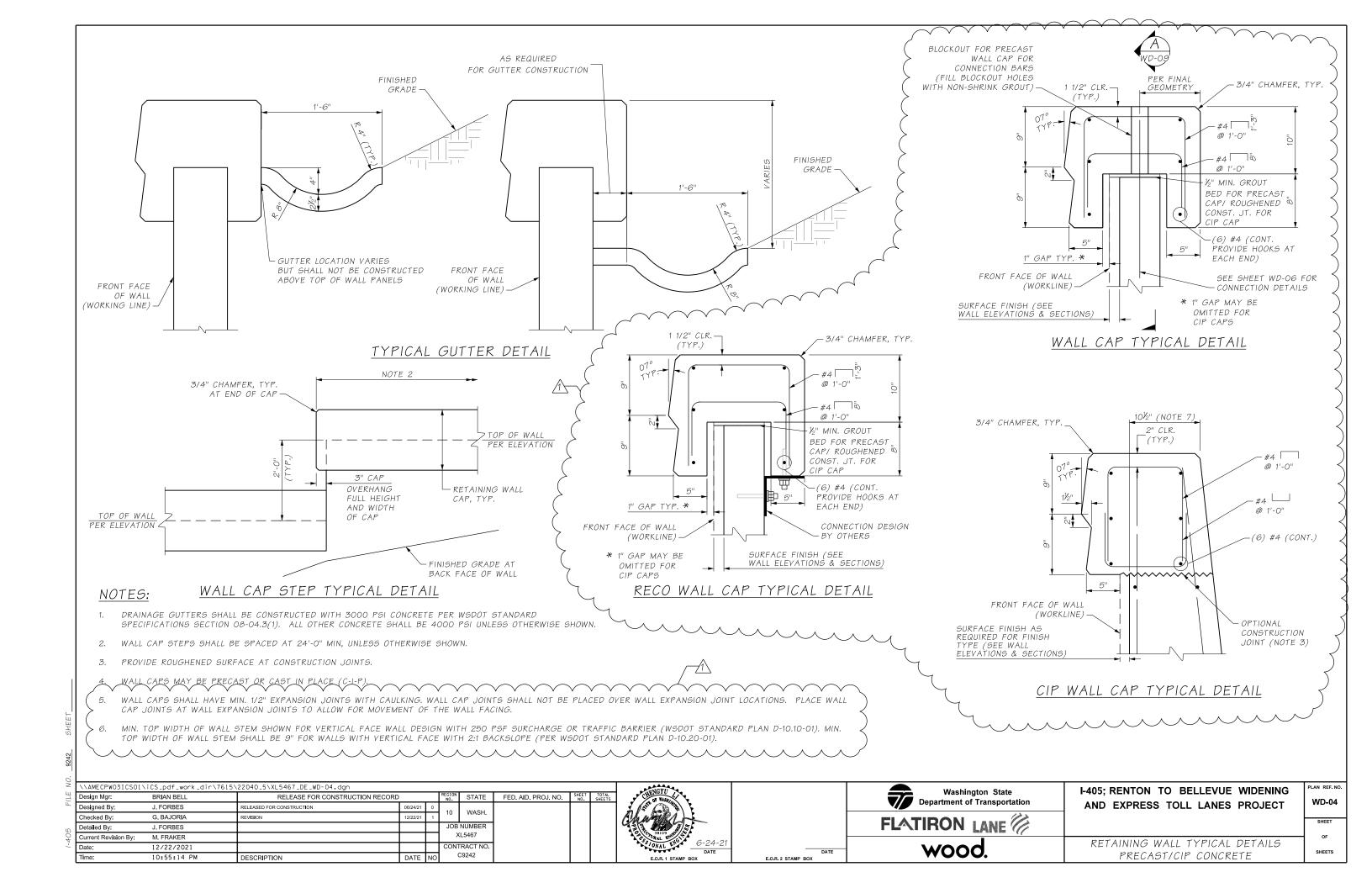
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

RETAINING WALL TYPICAL DETAILS FENCE BASE AND CONNECTIONS

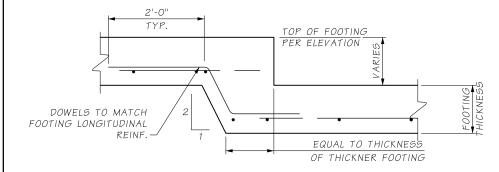
WD-03

SHEETS

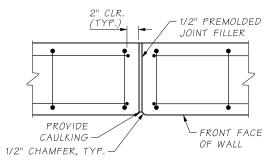
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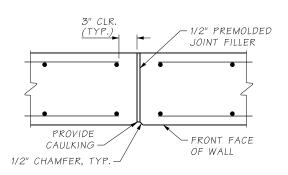
CIP FOOTING STEP TYPICAL DETAIL



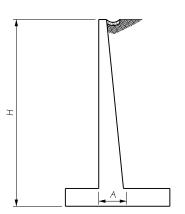
FASCIA FOOTING STEP TYPICAL DETAIL



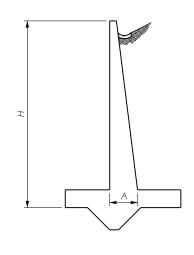
WALL CAP EXPANSION JOINT TYPICAL DETAIL



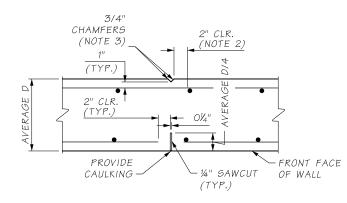
WALL EXPANSION JOINT TYPICAL DETAIL



WSDOT TYPE 1 RETAINING WALL



WSDOT TYPE 3 RETAINING WALL



CONTRACTION JOINT TYPICAL DETAIL
(NOTE 1)

NOTES:

1. THE MINIMUM DEPTH OF CONTRACTION JOINTS SHALL BE BASED ON THE AVERAGE THICKNESS (D) OF THE WALL STEM DIVIDED BY 4. SEE TABLES BELOW FOR WSDOT TYPE 1 AND TYPE 3 REINFORCED CONCRETE WALL INFORMATION AND CONTRACTION JOINT DEPTHS

WSDOT TYPE 1 REINFORCED CONCRETE RETAINING WALL

(SEE STANDARD PLAN D-10.10-01 FOR WALL HEIGHT > 20 FT)

WALL HEIGHT (H) (FT)	STEM BASE WIDTH (A) (FT)	CONTRACTION JOINT DEPTH (IN)
5	1.33	3.3
6	1.46	3.5
7	1.54	3.6
8	1.63	3.8
9	1.75	3.9
10	1.83	4.1
11	1.96	4.3
12	2.04	4.4
13	2.13	4.5
14	2.25	4.7
15	2.33	4.8
16	2.42	4.9
17	2.50	5.1
18	2.58	5.2
19	2.66	5.3
20	2.79	5.5

WSDOT TYPE 3 REINFORCED CONCRETE RETAINING WALL

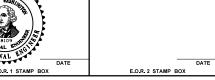
(SEE STANDARD PLAN D-10.20-01 FOR WALL HEIGHT > 20 FT)

WALL HEIGHT (H) (FT)	STEM BASE WIDTH (A) (FT)	CONTRACTION JOINT DEPTH (IN)
5	1.25	3.0
6	1.38	3.2
7	1.50	3.4
8	1.63	3.6
9	1.75	3.8
10	1.88	3.9
11	2.00	4.1
12	2.13	4.3
13	2.25	4.5
14	2.33	4.6
15	2.46	4.8
16	2.54	4.9
17	2.63	5.1
18	2.75	5.3
19	2.88	5.4
20	2.96	5.6
·	·	

- 2. VERTICAL REINFORCEMENT SHALL BE PLACED A MIN. 2 INCHES FROM WALL BACKFILL SIDE CHAMFERS.
- 3. PROVIDE VERTICAL CHAMFER FROM TOP OF WALL TO A MIN. 1'-O" BELOW FINISHED GRADE BEHIND THE WALL.

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17	Design Mgr:	n Mgr: BRIAN BELL RELEASE FOR CONSTRUCTION RECORD REGION STATE					STATE	FED. AID. PROJ. NO.	SHEET NO.	TOTAL SHEETS		
Τ.	Designed By:	M. FRAKER				10	WASH.					
	Checked By:	M. GARVER				10	WASH.					
Ω	Detailed By:	R. ABANO					NUMBER					
5	Current Revision By:					Х	L5467					
-	Date:	12/1/2021					RACT NO.					
	Time:	2:59:28 PM	DESCRIPTION	DATE	NO	(C9242					





Washington State Department of Transportation	I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT	WD-05
FLATIRON LANE		SHEET
wood	RETAINING WALL TYPICAL DETAILS	OF

WALL FOOTING AND JOINT DETAILS

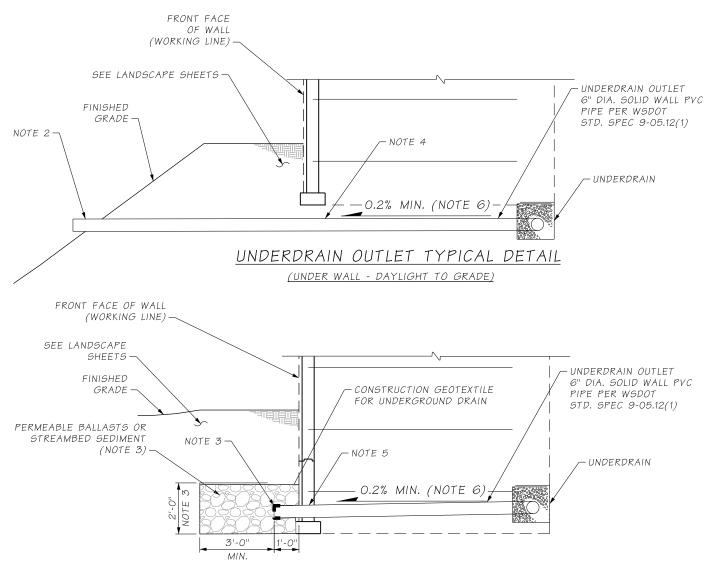
SHEETS

wood.

TYPICAL UNDERDRAIN DETAIL

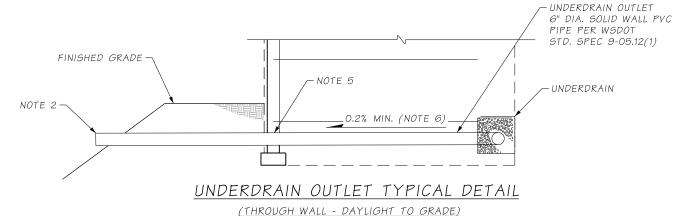
UNDERDRAIN NOTES:

- UNDERDRAIN OUTLET TYPICAL DETAILS ARE SHOWN WITH SEW WALL AND APPLY TO ALL WALL TYPES.
- ALL UNDERDRAIN OUTLETS THAT DAYLIGHT TO SURFACE SHALL BE FITTED WITH A FLAP TYPE ANTI-RODENT ENTRY FITTING. EXTEND PIPE BEYOND FACE OF WALL A MIN. OF 1'-O" AT OUTLET, OR AS REQUIRED TO ATTACH FITTING.
- UNDERDRAINS THAT OUTLET TO STREAM CHANNELS SHALL BE FITTED WITH STAINLESS STEEL MESH ANTI-RODENT ENTRY FITTING. THE PIPE OUTLET SHALL BE BACKFILLED WITH FREE DRAINING PERMEABLE BALLAST OR STREAMBED SEDIMENT MATERIAL VERTICAL DIMENSION OF DRAIN SHOWN IS THE MIN. AND MAY EXTEND TO A MIN. 12" BELOW FINISHED GRADE. EXTEND FREE DRAINING MATERIAL HORIZONTALLY ALONG THE UNDERDRAIN A DISTANCE OF 3'-O" FROM UNDERDRAIN OUTLET, OR UNTIL CONNECTION WITH CHANNEL STREAMBED MATERIAL, WHICHEYER IS GREATER. EXTEND FREE DRAINING MATERIAL HORIZONTALLY AND PERPENDICULAR TO THE UNDERDRAIN A MINIMUM DISTANCE OF 9" ON EITHER SIDE OF THE UNDERDRAIN.
- PROVIDE MIN. 6" COVER OVER UNDERDRAIN OUTLET UNDER WALL.
- UNDERDRAIN ALIGNMENTS AND ELEVATIONS PROVIDED MAY BE ADJUSTED IF REQUIRED WITH WALL DESIGN IN THE FIELD. UNDERDRAIN OUTLETS SHALL BE PLACED ON MIN. SLOPE OF 0.2% AND MAX. SLOPE OF 2.0%.
- SEE DRAINAGE SHEETS FOR UNDERDRAIN CLEANOUT REQUIREMENTS AND SEE SHEET WD-07 FOR WEEP HOLE DETAILS.



UNDERDRAIN OUTLET TYPICAL DETAIL

(THROUGH WALL - RAIN TO STREAM CHANNEL)



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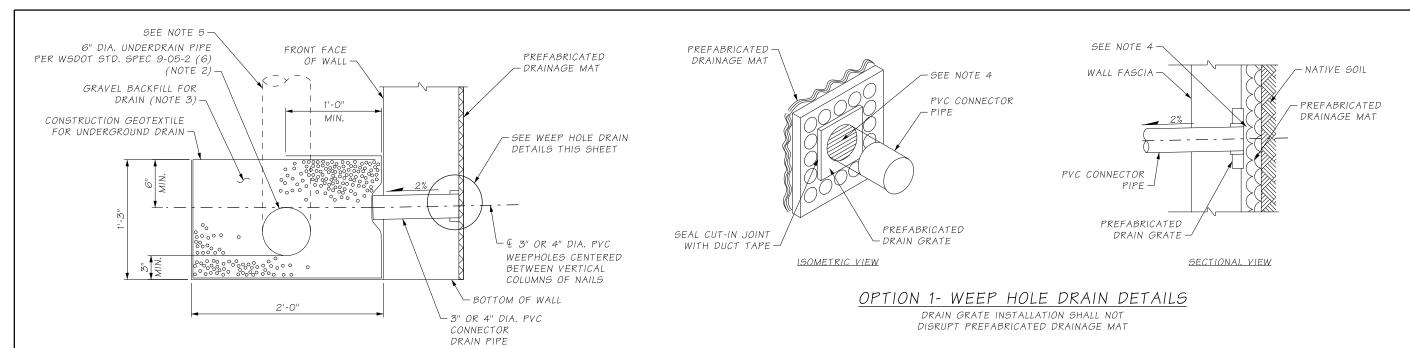


I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

RETAINING WALL TYPICAL DETAILS WALL DRAINS

PLAN REF. NO WD-06

SHEETS

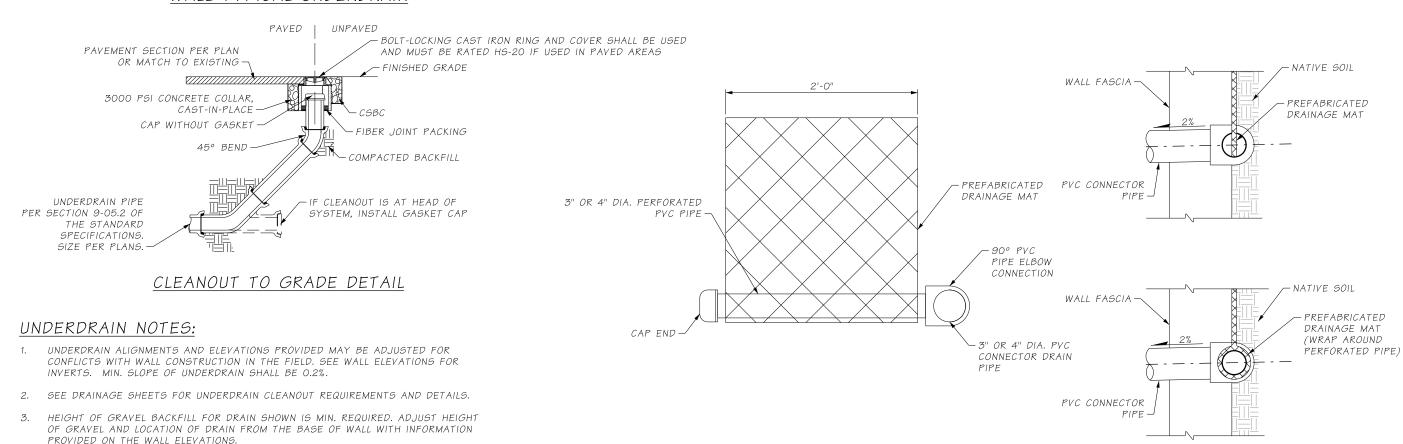


WALL TYPICAL UNDERDRAIN

DRILL ¼" HOLES INTO THE FLAT PLASTIC AREAS BETWEEN DIMPLES OF THE HARD PLASTIC CORE ON THE BACK (WALL) SIDE OF THE SHEET DRAIN AT THE WEEP HOLE LOCATION. DO NOT DRILL THROUGH DIMPLES OR FABRIC. HOLES SHOULD EXTEND IN

ALL DIRECTION TO MATCH THE DIMENSIONS OF THE WEEP HOLE.

INSTALL CLEANOUTS AT 200' MAX SPACING.

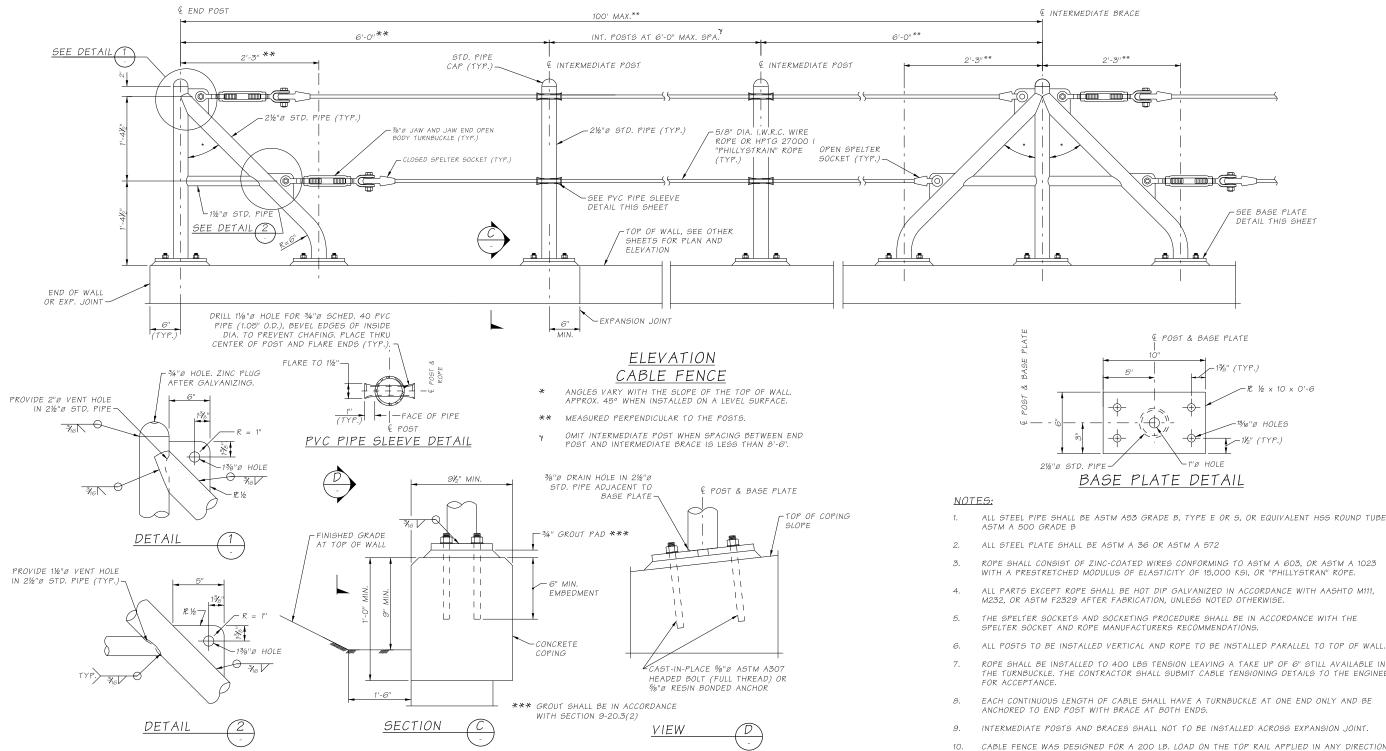


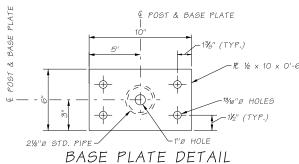
OPTION 2 - WEEP HOLE DRAIN DETAILS

SECTIONAL VIEW

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ž	\\AMECPW03ICS01	\iCS_pdf_work_dir\7413`	\22040_8\XL5467_DE_WD-07.dgn				CHENGYU		Washington State	I-405; RENTON TO BELLEVUE WIDENING	PLAN REF. NO.
7	Design Mgr:	BRIAN BELL	RELEASE FOR CONSTRUCTION RECORD		REGION STATE	FED. AID. PROJ. NO. SHEET TOTAL NO. SHEETS	OF WASHINGTON		Department of Transportation	· · · · · · · · · · · · · · · · · · ·	WD-07
IL	Designed By:	M. FRAKER			10 WASH.			<u>_</u>	Department of Transportation	AND EXPRESS TOLL LANES PROJECT	******
	Checked By:	M. GARVER			10 WASH.				FLATIDON		SHEET
D	Detailed By:	R. ABANO			JOB NUMBER				FLATIRON LANE		OHEE!
9	Current Revision By:				XL5467		38109 MAL 2100	-	nonem as an	DETAINING WALL TYPICAL DETAILS	OF OF
-	Date:	12/1/2021			CONTRACT NO.	1 1	DATE DATE	DATE	wood.	RETAINING WALL TYPICAL DETAILS	SHEETS
	Time:	2:59:24 PM	DESCRIPTION	DATE NO	C9242		E.O.R. 1 STAMP BOX	E.O.R. 2 STAMP BOX	WOOO .	WALL DRAIN AND WEEP HOLE DETAILS	SHEETS

ELEVATION VIEW



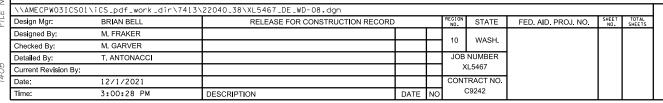


SEE BASE PLATE

DETAIL THIS SHEET

- ALL STEEL PIPE SHALL BE ASTM A53 GRADE B, TYPE E OR S, OR EQUIVALENT HSS ROUND TUBE ASTM A 500 GRADE B
- ALL STEEL PLATE SHALL BE ASTM A 36 OR ASTM A 572

- ROPE SHALL CONSIST OF ZINC-COATED WIRES CONFORMING TO ASTM A 603, OR ASTM A 1023 WITH A PRESTRETCHED MODULUS OF ELASTICITY OF 15,000 KSI, OR "PHILLYSTRAN" ROPE.
- ALL PARTS EXCEPT ROPE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111, M232, OR ASTM F2329 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
- THE SPELTER SOCKETS AND SOCKETING PROCEDURE SHALL BE IN ACCORDANCE WITH THE SPELTER SOCKET AND ROPE MANUFACTURERS RECOMMENDATIONS.
- ROPE SHALL BE INSTALLED TO 400 LBS TENSION LEAVING A TAKE UP OF 6" STILL AVAILABLE IN THE TURNBUCKLE. THE CONTRACTOR SHALL SUBMIT CABLE TENSIONING DETAILS TO THE ENGINEER
- EACH CONTINUOUS LENGTH OF CABLE SHALL HAVE A TURNBUCKLE AT ONE END ONLY AND BE ANCHORED TO END POST WITH BRACE AT BOTH ENDS.
- INTERMEDIATE POSTS AND BRACES SHALL NOT TO BE INSTALLED ACROSS EXPANSION JOINT.
- CABLE FENCE WAS DESIGNED FOR A 200 LB. LOAD ON THE TOP RAIL APPLIED IN ANY DIRECTION, AS REQUIRED BY WASHINGTON ADMINISTRATIVE CODE 296-155-24615.
- ROPE, SPELTER SOCKETS, TURNBUCKLES AND THEIR CONNECTIONS SHALL HAVE A MINIMUM BREAKING STRENGTH OF 26 KIPS.





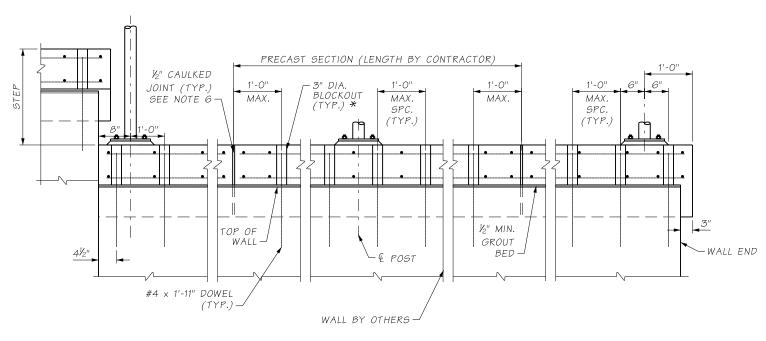


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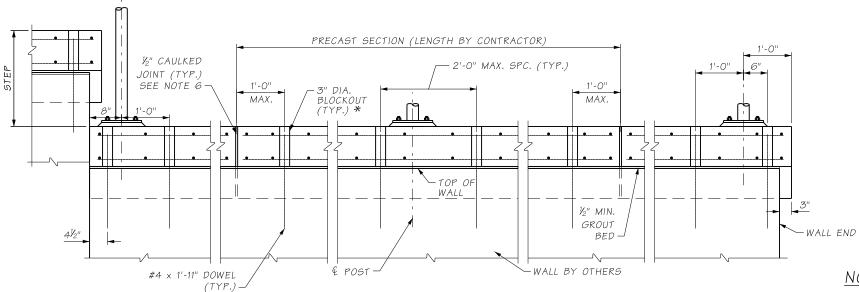
I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

LAN REF. NO WD-08 SHEET

RETAINING WALL TYPICAL DETAILS FALL PROTECTION CABLE FENCE ALT SHEETS



SECTION A PEDESTRIAN FENCE



SECTION A
FALL PROTECTION FENCE

NOTES:

DATE

- 1. ALL ANCHOR PLATES SHALL BE GALVANIZED.
- 2. THE TOP OF WALLS SHALL BE LEVEL. WALL CAP STEPS SHALL BE SPACED AT 24'-O" MIN, UNLESS OTHERWISE SHOWN.
- 3. THE TYPICAL WALL CAP STEP SHALL BE 2'-O".
- 4. PRECAST CAP SHOWN. CIP SIMILAR.
- 5. * BLOCKOUTS FOR PRECAST WALL CAPS ONLY
- 6. COPING JOINTS SHALL ALIGN WITH WALL JOINTS. COORDINATE WITH WALL JOINT LAYOUT.

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7	Design Mgr:	BRIAN BELL				REGION NO.	STATE	FED. AID. PROJ. NO.	SHEET NO.	TOTAL SHEETS	
1	Designed By:	M. FRAKER				10	WASH.				: ا
	Checked By:	M. GARVER				10	WASH.				1 3
Ω	Detailed By: R. ABANO						NUMBER				}
1	Current Revision By:					Х	L5467				
_	Date:	12/1/2021					RACT NO.				
	Time:	11:02:31 PM	DESCRIPTION	DATE	NO	(C9242				





I-405; RENTON TO BELLEVUE WIDENING AND EXPRESS TOLL LANES PROJECT

SHEET OF SHEETS

PLAN REF. NO.

WD-09

WOOD.

RETAINING WALL DETAILS
WALL CAP CONNECTION DETAILS